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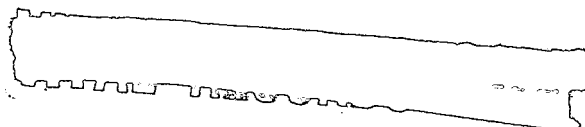
IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

YEVPA TORIYA DEEP-SPACE

TRACKING CENTER, USSR



Declass Review by NIMA/DOD

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CIA/PIR 71001

DATE Aug 1966

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YEVPATORIYA DEEP-SPACE TRACKING CENTER
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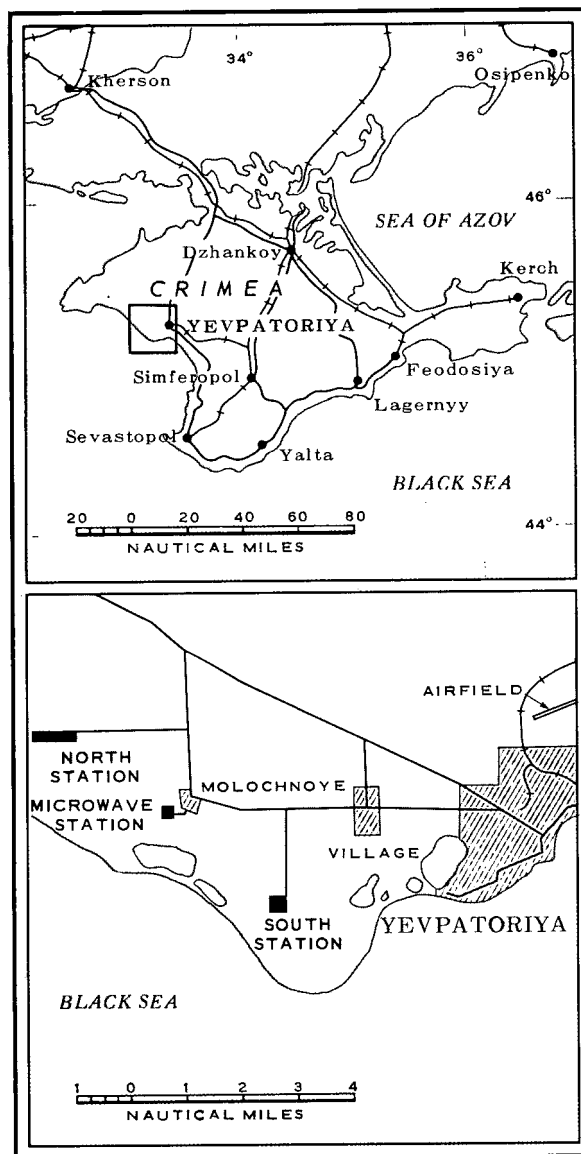


FIGURE 1. LOCATION OF YEVPATORIYA DEEP-SPACE TRACKING CENTER.

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YEVPARATORIYA DEEP-SPACE TRACKING CENTER, USSR

INTRODUCTION

The Yevpatoriya Deep-Space Tracking Center is located near the town of Yevpatoriya on the Crimean Peninsula (Figure 1). It consists of two separate facilities--the North Station, which is a receiving site, and the South Station, a transmitting site. In addition, there is a microwave facility located between these two stations.

The chronological history of these three components will be developed in the order stated above, utilizing four [] missions: []

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All measurements have been made by the NPIC Technical Intelligence Division and are considered to be accurate within ± 10 feet or ± 10 percent, whichever is greater.

NORTH STATION (RECEIVING SITE)

The North Station is located at 45-13-15N 33-09-30E, approximately nine nautical miles (nm) west-northwest of Yevpatoriya. It is the larger of the two stations. When first seen on [] photography [] it consisted of two separate antenna systems (A & B, Figure 2), approximately 12 support buildings, and an unidentified tower (Figure 2). The poor quality of the photography precluded a more precise identification of the antennas and support buildings. The station appeared to be fenced.

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[] the North Station was observed on good quality, cloud-free photography. Between [] several major changes or additions were noted, and additionally the better quality photography [] permitted a more detailed description.

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The two separate antenna systems, A and B, appear to be identical in all visible aspects. Each system consists of eight 50-foot dishes mounted in banks of four in a line (Figure 4). These dishes are rigidly mounted as one unit with the entire unit being rotatable in azimuth and elevation. Both antenna banks differ in azimuthal position from the positions observed in []

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Approximately 25 buildings were added to the supporting elements within the fenced area. These buildings are numbered and keyed to Figure 2 and Table 1. All information pertaining to these buildings is tabulated in Table 1.

A subsequently identified [] dish (Figure 2, Item G) was first observed on this mission. However, the small scale of photography precluded an identification at that time.

Between [] construction was begun on three structures (Figure 2, Items C, D, and E) of apparent major significance to the deep-space tracking capability of this Center. These structures are probable concrete pedestals located on large concrete pads. They appear to be almost identical in design to the large concrete pedestal cited in the previously published report on the Simferopol Space Tracking and Communication Center (CIA/PIR-61108, dated April 1966) on Figure 7, lower left photograph. Also the construction timing compares very favorably.

Additionally, on this photography [] approximately 11 new buildings were observed within the facility (Figure 2 and Table 1).

A second, subsequently identified, [] dish (Figure 2, Item F) was observed adjacent to the previously noted [] dish. The two [] dishes appear to be connected by a cable trench.

On [] photography [] of the Center was obtained but stereoscopic interpretability was severely hampered by scattered clouds and cloud shadow. However, many previously identified objects and several new developments are now seen in greater detail on this larger scale photography. Therefore, descriptive terms applied to Table 1 are extracted from this photography with all mensuration being from []

The most significant new development observed is a ditch running from the concrete pad at Antenna A to the pad at Antenna B (Figure 2). This ditch is also connected to control buildings 47 and 51.

Other new developments are the addition of two building foundations (Figure 2, Items 3 and 4).

The aforementioned three probable concrete pedestals can be definitely identified as such on this coverage. One of the pedestals (Figure 2, Item E, Table 1) is braced by anchor points, similar to those seen at Simferopol for use by an overhead structural crane in the emplacement of a large parabolic dish.

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The two [] dishes (Figure 2, Items F and G), although previously noted, were not identifiable until this time.

SOUTH STATION (TRANSMITTING SITE)

The South Station is located at 45-10-20N 33-15-30E, four nm southeast of the North Station. This station has remained essentially unchanged since first seen on [] photography []. However, improved image quality of each subsequent coverage has allowed some enhancement of the original description.

[] this station consisted of one subsequently identified antenna system (Figure 3, Item A), and approximately 28 assorted buildings in support of the station. Poor image quality of the photography precluded a more detailed description of the facilities at that time.

On photography [] five additional support buildings, not previously identified, were observed (Figure 3, Items 11, 26, 30, 32, & 33, Table 2). Also, a cooling pond, approximately 75 feet in diameter, was observed adjacent to the antenna bank (Figure 3, Item A).

The antenna bank, consisting of eight parabolic dishes grouped in two rows of four dishes, is identical in appearance and mensuration to the two antenna banks at the North Station.

The most recent coverage of the South Station was on [] [] No significant changes or additions were noted since

MICROWAVE STATION

The Microwave Station was present in [] but no identification could be made due to extremely poor image quality of the available photography.

[] the microwave tower could be identified as such and was erected adjacent to a control building. The site appeared to be within a fenced area approximately 190 feet on a side with a power trace leading off in the direction of the North Station. The height of the microwave tower is approximately 240 feet. No reflector identification nor orientation was possible at that time.

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X1 [] , one support building had been added within the secured area. The two buildings associated with the microwave tower are approximately 30 by 20 feet and 25 by 25 feet in size. Small scale of the photography precludes further interpretation.

SUMMARY

Although there is a lack of additional activity at the South Station, there appears to be a period of major construction of new electronic facilities at the North Station. The three new concrete pedestals (Figure 2, Items C, D, & E) are very similar to the new pedestal at Simferopol and also to the pedestal supporting the 100-foot radio telescope at the Simferopol Center (CIA/PIR-61108). This indicates that, in all probability, three large dishes will appear in the near future at Yevpatoriya on these three pedestals.

X1 Throughout the development of the chronology at the North Station, it was observed that each of the two antenna banks (Figure 2, Items A and B) are probably capable of operation independent of the other. On at least two occasions [] , the two antenna banks were oriented on different azimuths.

REFERENCES 2X1[]
MAPS AND CHARTS

SAC USAir Target Chart, Series 200, Sheet 0250-19HL, 3rd edition,
Scale 1:200,000, December 1962 (SECRET)

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DOCUMENTS

NPIC. R-285/63, Deep-Space Probe Tracking and Communications Center,
Yevpatoriya, USSR, November 1963 (TOP SECRET [REDACTED])

CIA. PIR-61108, Simferopol Space Tracking and Communication Center,
USSR, April 1966 (TOP SECRET [REDACTED])

[REDACTED]

REQUIREMENT

C-SI5-82,874

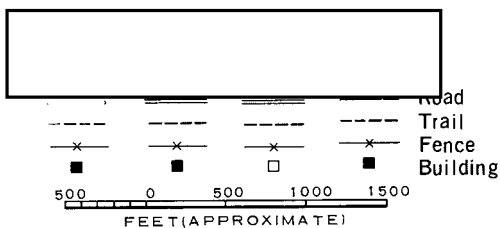
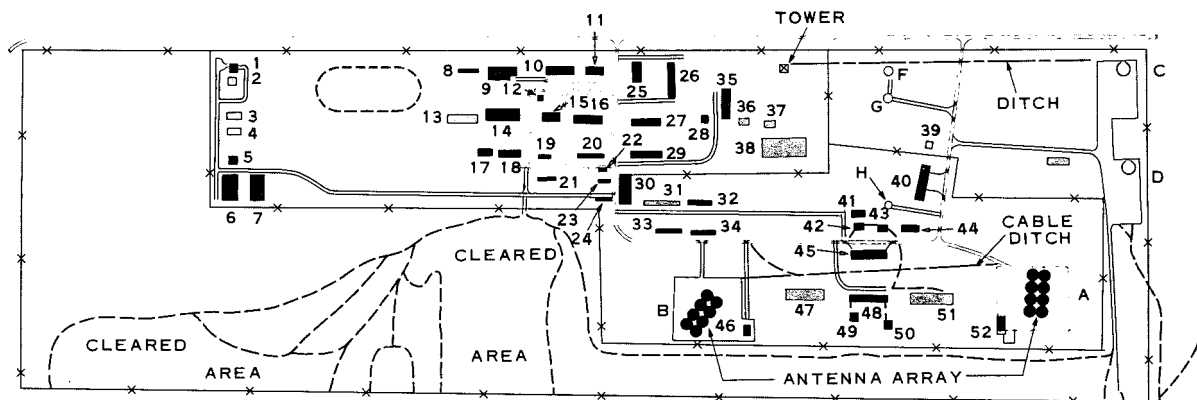
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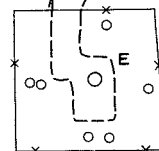
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NORTH STATION
(RECEIVING)
YEVPATORIYA DEEP-SPACE
TRACKING CENTER

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ITEMS KEYED TO TEXT



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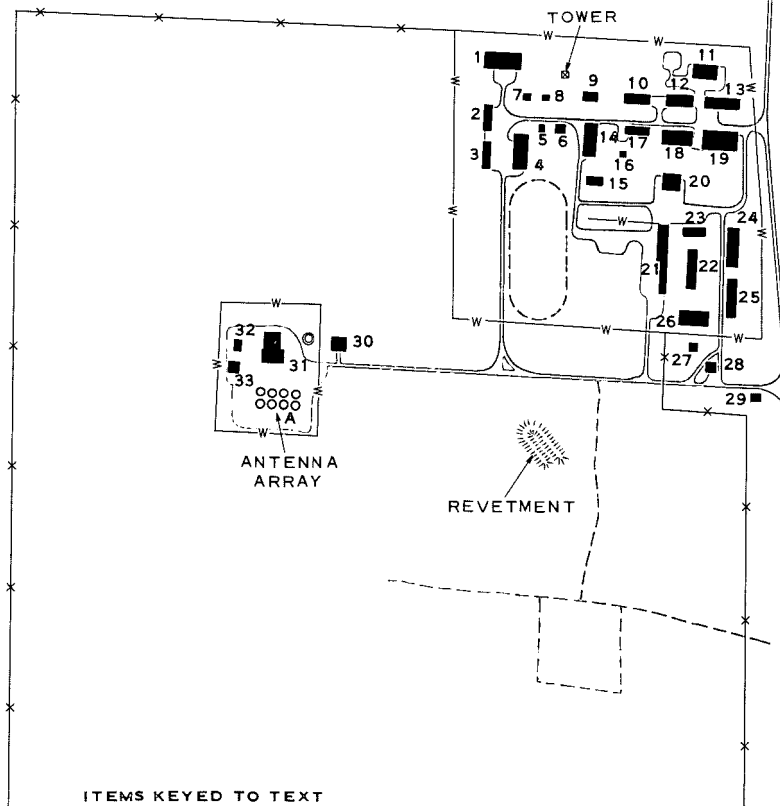
FIGURE 2.

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**SOUTH STATION
(TRANSMITTING)**
**YEVPATORIYA DEEP-SPACE
TRACKING CENTER**



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FIGURE 3.

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TABLE 1

NORTH STATION MENSURATION TABLE

Building Number	Length	Width	Height	Square Footage	Cubic Footage	No. Floors	Description
X1 1					--	1	Flat-Roofed--
					--	1	Unidentified Function
2					--	1	Flat-Roofed--
					--	-	Unidentified Function
3	100	30	--	3000	--	-	Building Foundation
4	100	30	--	3000	--	-	Building Foundation
5	Could not be measured accurately				--	1	Undetermined Function
X1 6					--	1	Gable-Roofed Support
					--	1	Building
7					--	1	Gable-Roofed Support
					--	1	Building
8					--	1	Flat-Roofed Barracks
					--	1	Type
9					--	1	Flat-Roofed Barracks
					--	2	Type
10					--	2	Flat-Roofed Barracks
					--	2	Type
11					--	2	Flat-Roofed Barracks
					--	2	Type
12	Could not be measured accurately				--	2	Undetermined Function
X1 13					--	2	Flat-Roofed Barracks
					--	2	Type
X1 14					134,400	2	Flat-Roofed Barracks
					--	1	Type
15	50	25	--	1250	--	1	Undetermined Function
X1 16					--	2	Flat-Roofed Barracks
					--	2	Type
17	Co				--	2	Undetermined Function
X1 18					--	2	Flat-Roofed Barracks
					--	1	Type
19	30	25	--	750	--	1	Undetermined Function
X1 20					--	1	Prob Admin Building
21					--	1	Undetermined Function
22	Could not be measured accurately				--	1	Undetermined Function

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Table 1 continued

Building Number	Length	Width	Height	Square Footage	Cubic Footage	No. Floors	Description
23					--	1	Flat-Roofed--Poss
24					--	1	Vehicle Maintenance Flat-Roofed--Poss
25	80	50	--	4000	--	2 or 3	Vehicle Maintenance Flat-Roofed--
26	140	25	--	3500	--	1	Undetermined Function Gable-Roofed Barracks
27			--	3475	--	1	Type Gable-Roofed Barracks
28	Size Undetermined					1	Type Gable-Roofed--
29	140	40	--	5600	--	1	Undetermined Function Gable-Roofed Barracks
30					--	1	Type Flat-Roofed Prob Vehicle
31	145	25	--	3550	--	1	Maintenance/Storage Gable-Roofed Barracks/
32	105	30	--	3150	--	1	Storage Type Gable-Roofed Barracks/
33					--	1	Storage Type Flat-Roofed Storage
34	105	30	--	3150	--	1	Type Gable-Roofed Barracks/
35					--	1	Storage Type Gable-Roofed Barracks/
36	20	20	--	400	--	1	Storage Type Flat-Roofed--
37					--	1	Undetermined Function Flat-Roofed--
38	170	60	20	10,200	204,000	1 or 2	Undetermined Function Flat-Roofed--Prob
39	Could not be measured accurately					1	Maintenance/Assembly Function
40	215	40	--	8600	--	1	Undetermined Function Modified Sawtooth
							Roof-Prob Light
							Fabrication/Machine
41	40	30	--	1200	--	1	Function Flat-Roofed--Support
							Building

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Table 1 continued

Building Number	Length	Width	Height	Square Footage	Cubic Footage	No. Floors	Description
X1 42					--	1	Flat-Roofed--Support Building
43					--	1	Flat-Roofed--Support Building
44	100	35	--	3500	--	1	Gable-Roofed--Barracks Storage Type
X1 45					--	1	Flat-Roofed--Prob Control Building
46	50	35	--	1750	--	1	Flat-Roofed--Prob Control Building
X1 47					154,275	1	Flat-Roofed--Control Building
48					--	1	Flat-Roofed--Control Building
X1 49					--	1	Flat-Roofed--Unidentified Function
50	Could not be measured accurately						Unidentified
X1 51					137,700	1	Flat-Roofed--Control Building
52					--	1	Flat-Roofed--Prob Control Building

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TABLE 2

SOUTH STATION MENSURATION TABLE

<u>Building Number</u>	<u>Length</u>	<u>Width</u>	<u>Square Footage</u>	<u>Description</u>
1	145	55	7975	Prob Storage/Maintenance
2				Prob Barracks Type
3	95	30	2850	Prob Barracks Type
4				Prob Storage/Maintenance
5				Unidentified Function
6	60	40	2400	Unidentified Function
7	45	30	1350	Unidentified Function
8				Unidentified Function
9	65	45	2925	Prob Barracks Type
10				Prob Barracks Type
11				Unidentified Function
12				Prob Storage Type
13	60	35	2100	Prob Storage Type
14				Prob Vehicle Maintenance
15	60	30	1800	Unidentified Function
16	Too small to be measured accurately			Unidentified Function
17	80	25	2000	Poss Admin Building
18	95	40	3800	Poss Admin Building
19	135	60	8100	Poss Barracks Type
20				Unidentified Function
21	285*	30	8550	Prob Admin/Barracks
22	140	40	5600	Prob Barracks Type
23				Prob Barracks Type
24				Prob Barracks Type
25				Prob Barracks Type
26	140	40	5600	Prob Barracks Type
27	50	30	1500	Unidentified Function
28	Could not be measured accurately			Unidentified Function
29	Could not be measured accurately			Prob Guard Shack
30	60	40	2400	Unidentified Function
31	Heavy Shadows precluded measurement			Control Building
32	55	15	825	Prob Support Type
33				Prob Support Type

* Building 21 appears to consist of three sections and is probable multi-functional.

NOTE: 1. All buildings appear to be only one story.
 2. Heights could not be determined accurately.

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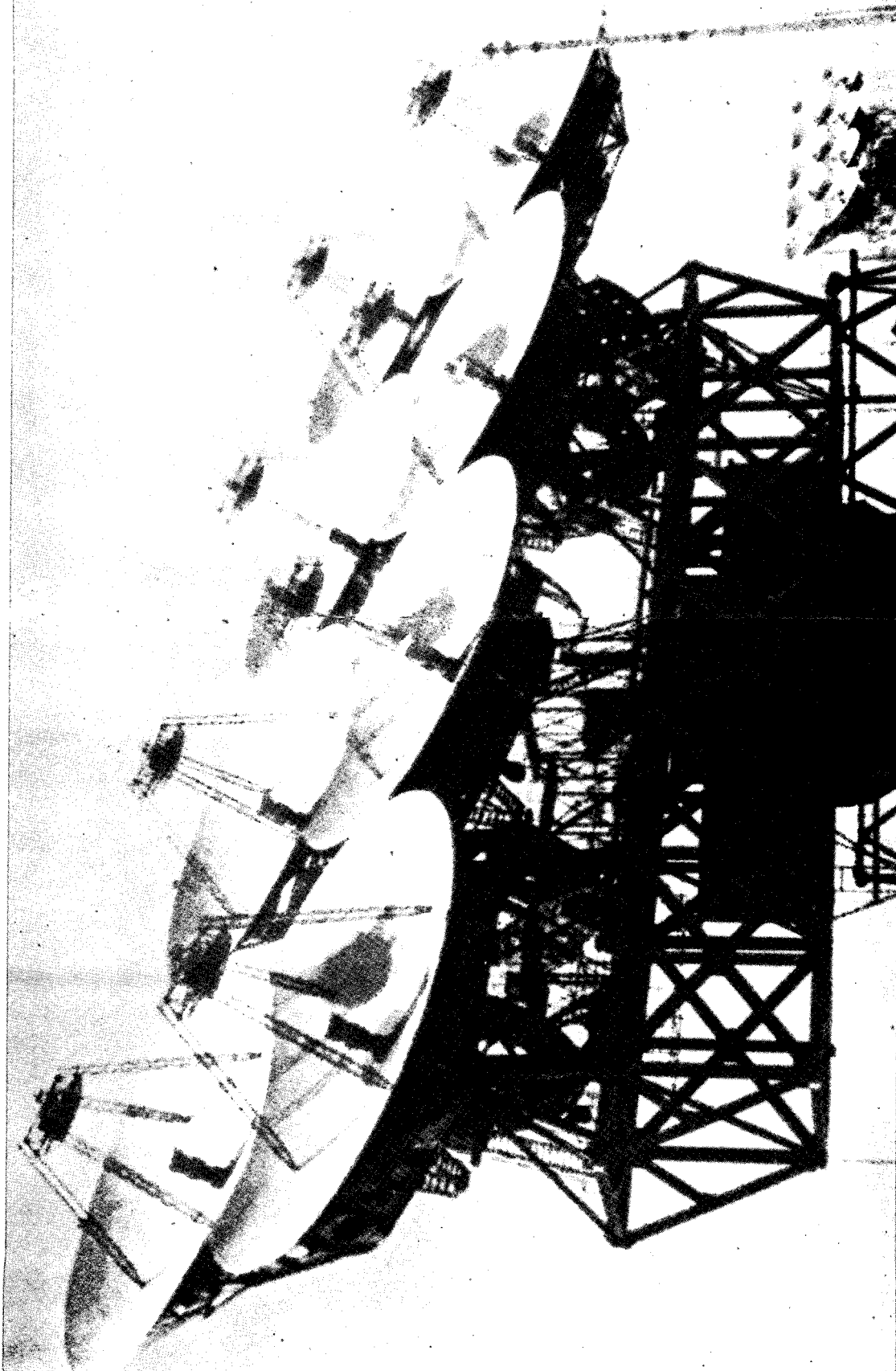


FIGURE 4. ANTENNAS AT NORTH STATION.

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